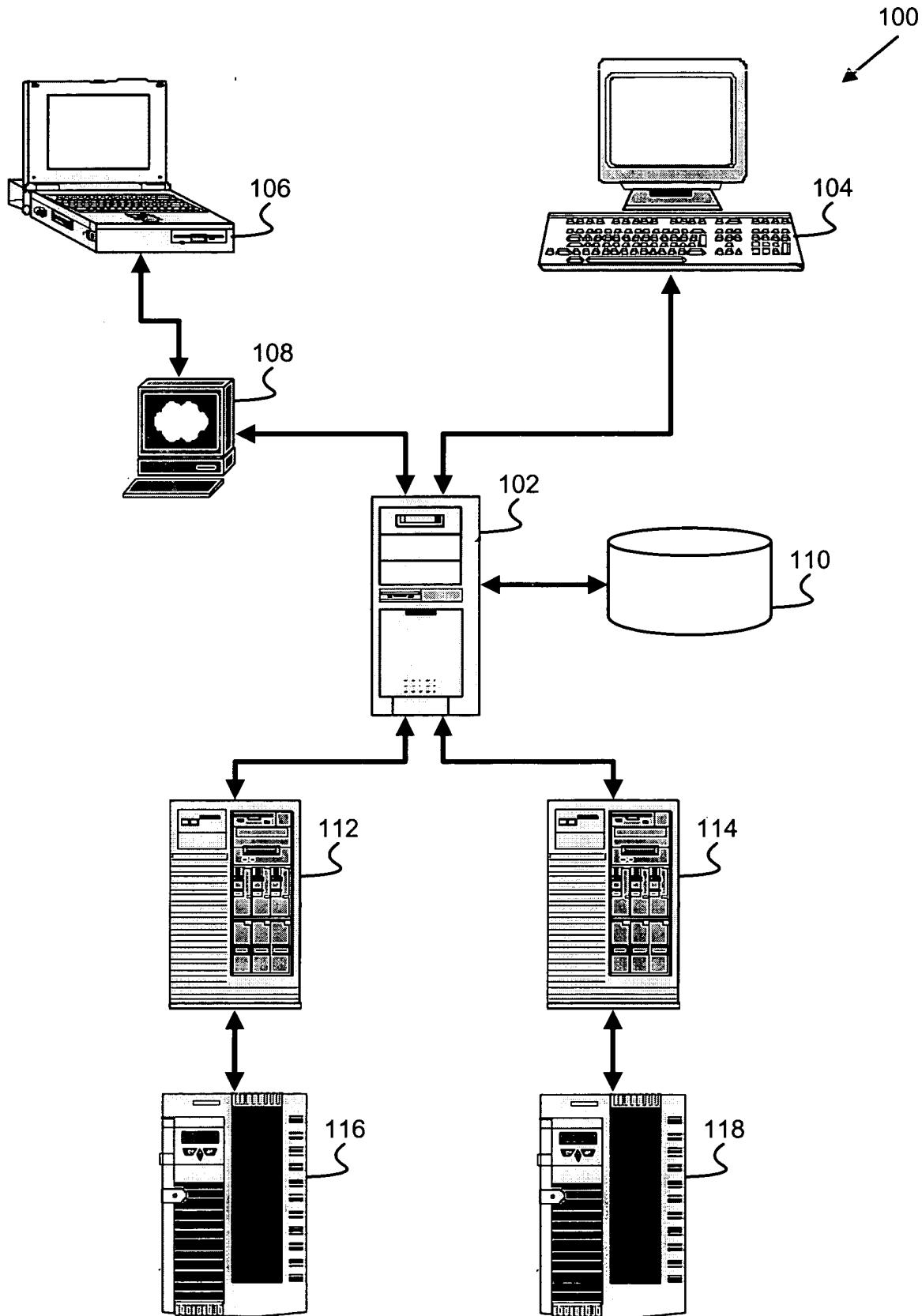# PAGE 1/7

FIG. 1

APPARATUS, SYSTEM, AND METHDO FOR MODELING FOR STORAGE PROVISIONING
Justin R. Bendich, et al.
IBM Docket No.: SJO9-2003-0051
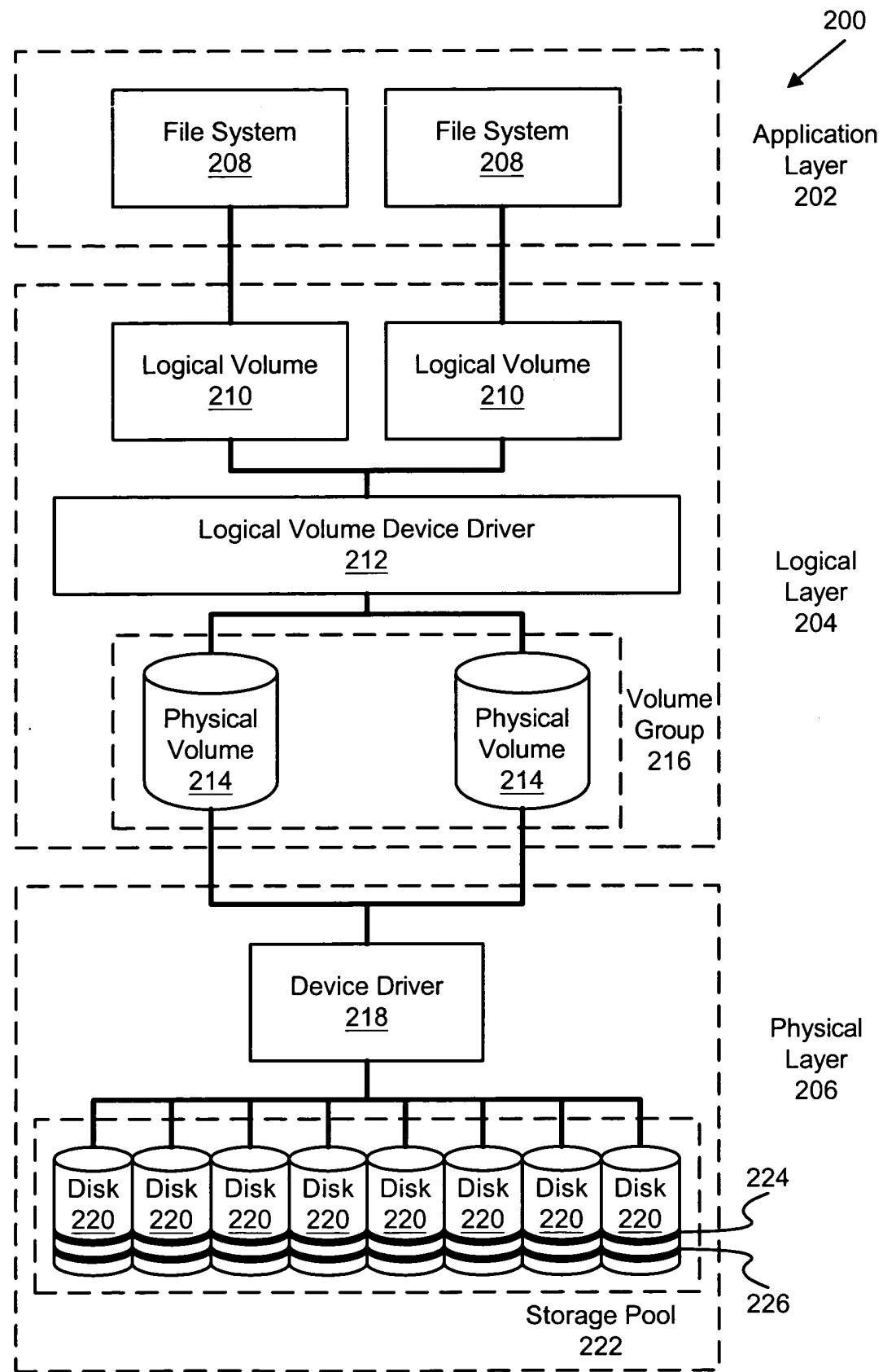Kunzler & Associates Docket No.: 1200.2.93 (BCK)

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200

File System
208

File System
208

Application
Layer
202

Logical Volume
210

Logical Volume
210

Logical Volume Device Driver
212

Logical
Layer
204

Physical
Volume
214

Physical
Volume
214

Volume
Group
216

Device Driver
218

Physical
Layer
206

Disk
220

Disk
220

Disk
220

Disk
220

Disk
220

Disk
220

Disk
220

Disk
220

224

226

Storage Pool
222

FIG. 2

APPARATUS, SYSTEM, AND METHDO FOR MODELING FOR STORAGE PROVISIONING
Justin R. Bendich, et al.
IBM Docket No.: SJO9-2003-0051
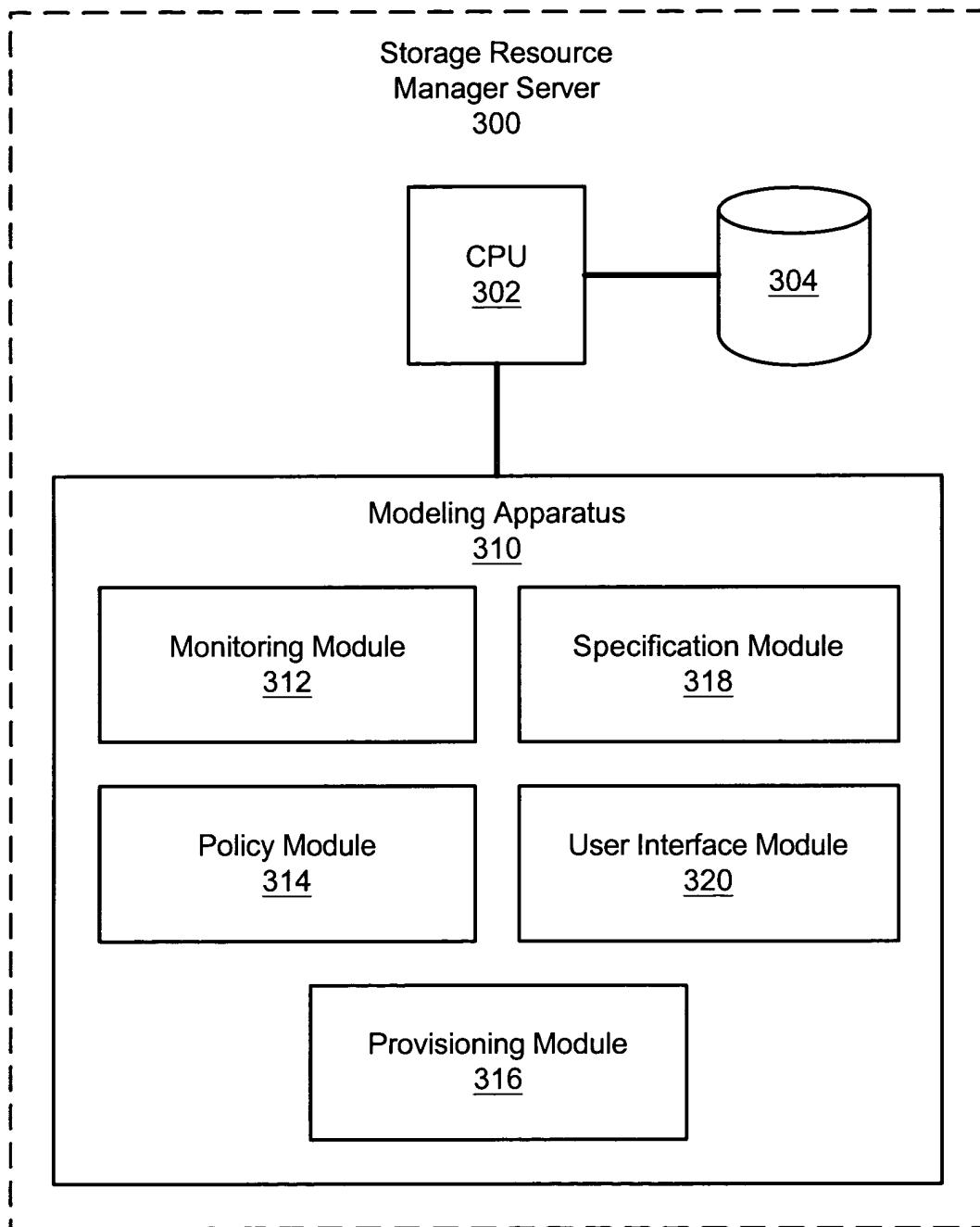**Kunzler & Associates Docket No.: 1200.2.93 (BCK)**

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Storage Resource
Manager Server
300

CPU
302

304

Modeling Apparatus
310

Monitoring Module
312

Specification Module
318

Policy Module
314

User Interface Module
320

Provisioning Module
316

FIG. 3

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Begin — 402

400

Enable
LUN Provisioning — 404

Specify
LUN Model Source — 406

Specify
LUN Source — 408

End — 410

FIG. 4a

Begin — 422

420

Identify Storage Server — 424

Identify Storage Pool — 426

Identify Connectivity
between Storage Server
and Client — 428

End — 430

FIG. 4b

APPARATUS, SYSTEM, AND METHDO FOR MODELING FOR STORAGE PROVISIONING
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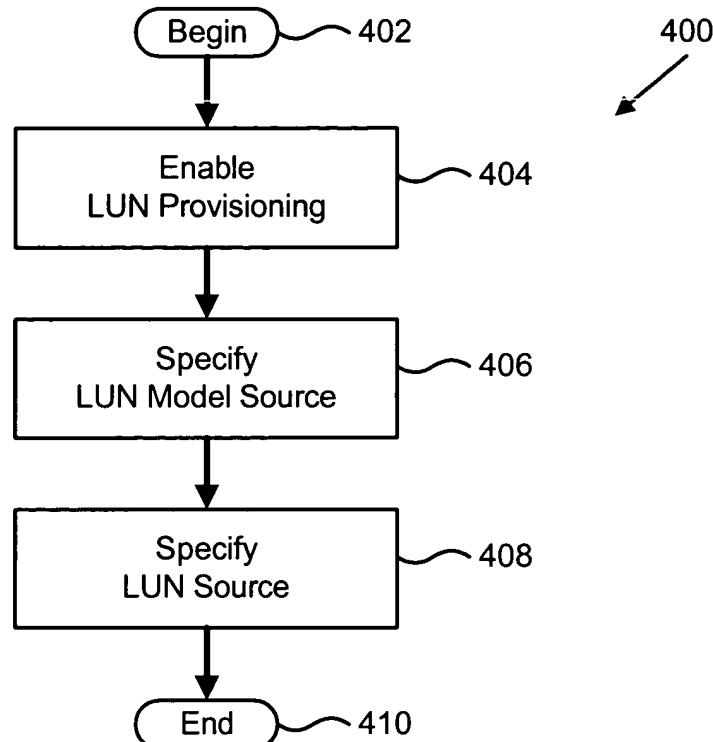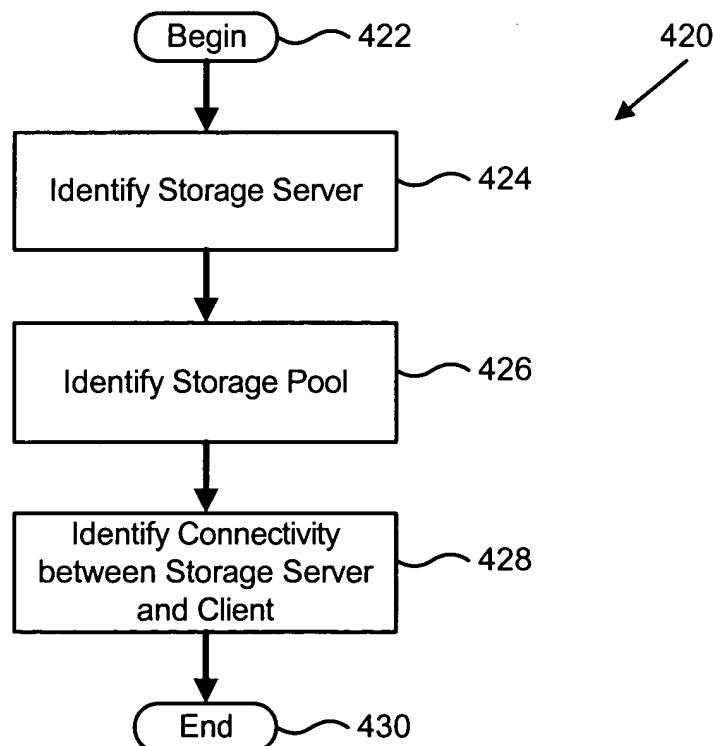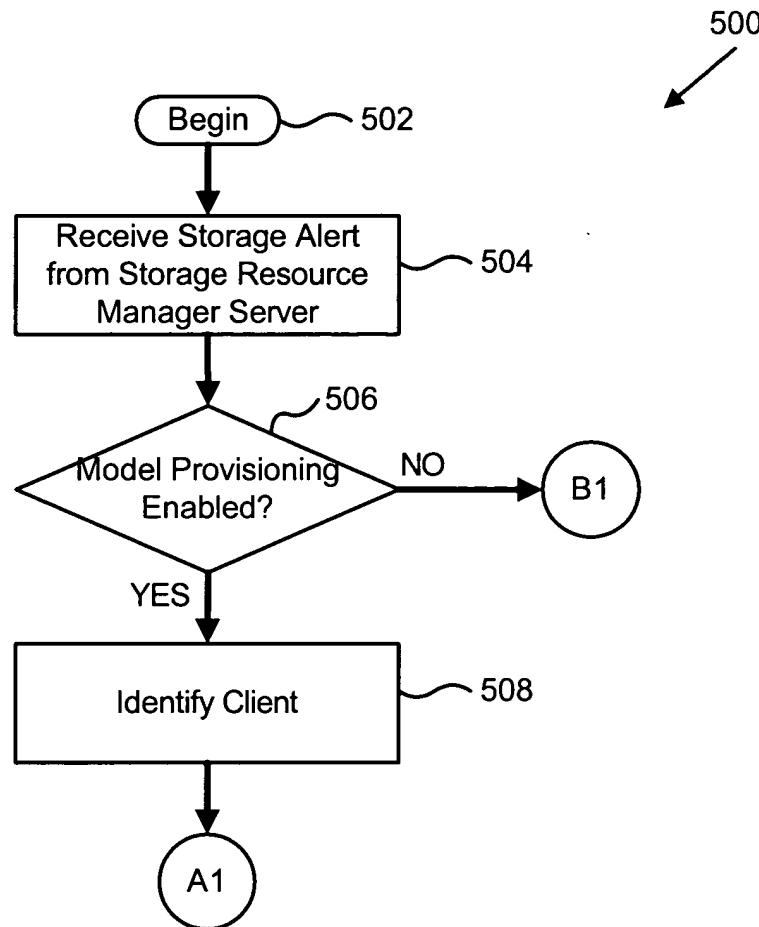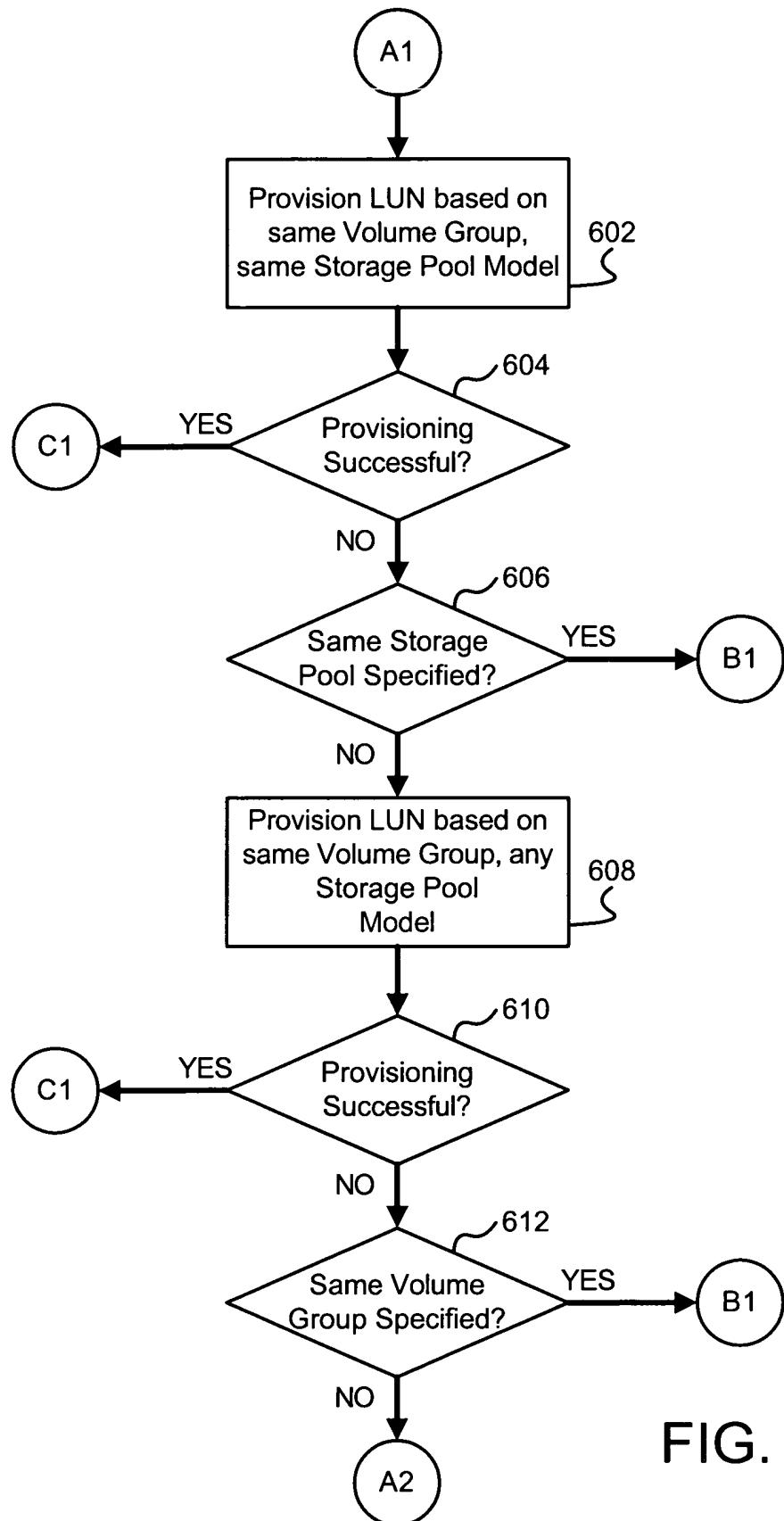**Kunzler & Associates Docket No.: 1200.2.93 (BCK)**

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500

Begin — 502

Receive Storage Alert
from Storage Resource
Manager Server — 504

506

Model Provisioning
Enabled?

NO → B1

YES

Identify Client — 508

A1

FIG. 5

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A1

Provision LUN based on same Volume Group, same Storage Pool Model — 602

604 — Provisioning Successful?

YES → C1

NO

606 — Same Storage Pool Specified?

YES → B1

NO

Provision LUN based on same Volume Group, any Storage Pool Model — 608

610 — Provisioning Successful?

YES → C1

NO

612 — Same Volume Group Specified?

YES → B1

NO

A2

FIG. 6

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(A2)

Provision LUN based on any Volume Group, same Storage Pool Model — 702

(C1)

704 — Provisioning Successful?

YES

NO

Provision LUN based on any Volume Group, any Storage Pool Model — 706

(B1)

708 — Provisioning Successful?

NO

Notify Storage System Administrator of Storage Alert — 710

YES

End — 712

FIG. 7